

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office					Atty. Docket No. P19913	Serial No. 09/831,346		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant Siew Kok HUI								
		Filing Date May 11, 2001			Group 2631					
U.S. PATENT DOCUMENTS										
EXAMINER INITIAL	DOCUMENT NUMBER				DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4	9	3	1	9	7	7	06/05/90	KLEMES	
FOREIGN PATENT DOCUMENTS										
	DOCUMENT NUMBER				DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)										
EXAMINER	David Lugo				DATE CONSIDERED		9/22/04			
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Paper #4

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office						Atty. Docket No. P19913	Serial No. 09/831,346
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								Filing Date May 11, 2001	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DL	4	0	2	5	7	2	1	05/24/97	GRAUPE et al.		
O P E R A T I O N S	4	4	2	5	4	8	1	01/10/84	MANSGOLD et al.		
SEP 10 2001 PATENT & TRADEMARK OFFICE	4	5	8	9	1	3	7	05/13/86	MILLER		
	4	6	2	8	5	2	9	12/09/86	BORTH et al.		
	4	6	3	0	3	0	4	12/16/86	BORTH et al.		
	4	6	3	0	3	0	5	12/16/86	BORTH et al.		
	4	8	8	7	2	9	9	12/12/89	CUMMINS et al.		
	4	9	5	6	8	6	7	09/11/90	ZUREK et al.		
	5	0	2	7	4	1	0	06/25/91	WILLIAMSON et al.		
	5	2	2	4	1	7	0	06/29/93	WAITE, Jr.		
	5	4	0	2	4	9	6	03/28/95	SOLI et al.		
	5	4	1	2	7	3	5	05/02/95	ENGEBRETSON et al.		
	5	4	7	1	5	3	8	11/28/95	SASAKI et al.		
	5	4	7	5	7	5	9	12/12/95	ENGEBRETSON		
	5	5	5	7	6	8	2	09/17/96	WARNER et al.		
	5	6	2	7	7	9	9	05/06/97	HOSHUYAMA		
	5	6	8	0	4	6	7	10/21/97	HANSEN		
	5	6	9	4	4	7	4	12/02/97	NGO et al.		
	5	7	3	7	4	3	0	04/07/98	WIDROW		
	5	7	5	4	6	6	5	05/19/98	HOSOI		
	5	7	9	3	8	7	5	08/11/98	LEHR et al.		
	5	8	2	5	8	9	8	10/20/98	MARASH		
	5	8	3	5	6	0	7	11/10/98	MARTIN et al.		
	5	8	3	5	6	0	8	11/10/98	WARNAKA et al.		
DL	5	9	1	7	9	2	1	06/29/99	SASAKI et al.		

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David Lugo

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9/22/04

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U.S. PATENT DOCUMENTS

EXAMINER David L. Woods

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DL	- 1	"Adaptive Antenna Systems", by WIDROW et al., Proceedings of the IEEE, vol. 55, no. 12, December, 1967, pages 2143-2159.
DL	- 2	"Signal Cancellation Phenomena in Adaptive Antennas: Causes and Cures", by WIDROW et al., IEEE Transactions on Antennas and Propagation, vol. AP-30, no. 3, May, 1982, pages 469-478.
DL	- 3	"An Adaptive Generalized Sidelobe Canceller with Derivative Constraints", by BUCKLEY et al., IEEE Transactions on Antennas and Propagation, vol. AP-34, no. 3, March, 1986, pages 311-319.
DL	- 4	"Fundamentals of Speech Recognition", by RABINER et al., Prentice Hall, 1993, pages 77-79 and 183-190.
DL	- 5	"Speech Enhancement Using a Minimum Mean-Square Error Short-Time Spectral Amplitude Estimator", by EPHRAIM et al., IEEE Transactions on Acoustics, Speech, and Signal Processing, vol. ASSP-32, no. 6, December, 1984, pages 1109-1121.

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DATE CONSIDERED

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
DL	-	1	GRIFFITHS et al., "An Alternative Approach to Linearly Constrained Adaptive Beamforming", IEEE Transactions on Antennas and Propagation, vol. AP-30, No. 1, January 1982, pp. 27-34.
DL	-	2	EPHRAIM et al., "Speech Enhancement Using Optimal Non-Linear Spectral Amplitude Estimation," Proc. IEEE International Conference Acoustics Speech and Signal Processing (Boston), 1983, pp. 1118-1121.
			DATE CONSIDERED 9/22/04

EXAMINER David Lugo *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Paper #7

EXAMINER Daniel Lingo

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